UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/648,420	08/23/2000	Richard David Day	60095-0039	5648
29989 HICKMAN PA	7590 12/31/200 LERMO TRUONG &		EXAMINER	
2055 GATEWAY PLACE			TODD, GREGORY G	
SUITE 550 SAN JOSE, CA	A 95110		ART UNIT	PAPER NUMBER
57 H V 3052, 07	1,3110		2157	
			MAIL DATE	DELIVERY MODE
			12/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

t			\triangle
	Application No.	Applicant(s)	
•	09/648,420	DAY ET AL.	
Office Action Summary	Examiner	Art Unit	
	Gregory G. Todd	2157	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	th the correspondence addres	s
A SHORTENED STATUTORY PERIOD FOR RI	 EDLV IS SET TO EXPIRE 3 M	ONTH(S) OR THIRTY (30) D	ΔΥς
WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 Cf after SIX (6) MONTHS from the mailing date of this communicatio If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNION FR 1.136(a). In no event, however, may a rent in the second will apply and will expire SIX (6) MON statute, cause the application to become Alexandre in the second Alexandre in the second statute.	CATION. eply be timely filed ITHS from the mailing date of this commul BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	93 October 2007.		
	This action is non-final.		
3) Since this application is in condition for all	owance except for formal mat	ers, prosecution as to the me	rits is
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-14 and 21-34</u> is/are pending in	the application.		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.	•	•	
6)⊠ Claim(s) <u>1-14 and 21-34</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction a	ind/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exa	miner.	•	
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the co			
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attache	d Office Action or form P1O-1	.52.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b Some * c) None of:	reign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).	
 Certified copies of the priority docur 	ments have been received.		
2. Certified copies of the priority docur			
3. Copies of the certified copies of the		received in this National Stag	ge
application from the International Boat * See the attached detailed Office action for a		racaivad	
See the attached detailed Office action for a	a list of the certified copies flot	· ·	
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413) s)/Mail Date	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-94) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/6/07. 	·/ —	nformal Patent Application	

Art Unit: 2157

DETAILED ACTION

Response to Amendment

1. This office action is in response to applicant's amendment filed, 03 October 2007, of application filed, with the above serial number, on 28 August 2000 in which claims 1, 3-8, 11-13, 21, 23-28, and 31-33 have been amended. Claims 1-14 and 21-34 are pending in the application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-14 and 21-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chauhan (hereinafter "Chauhan", 6,115,752) in view of Scharber (hereinafter "Scharber", 6,542,964), and further in view of Lin et al (hereinafter "Lin ", 2001/0052015)

As per Claim 1, Chauhan teaches a method, comprising:

receiving a request from a user for a web page at a first web address, the first web address including a hostname (request for address) (at least col. 6, lines 45-53);

determining traffic loads of a plurality of mirrored customer web servers among a customer's plurality of web servers, each of the customer web servers storing the web page (mirrored server round trip times) (at least col. 7, lines 24-42);

Art Unit: 2157

determining a customer web server from the plurality of mirrored customer web servers that is appropriate for the request, the customer web server having a traffic load lower than traffic loads of remaining customer web servers from the plurality of mirrored customer web servers (mirrored server with best route) (at least col. 7, lines 24-42);

Page 3

determining an IP address of the customer web server (address name server) (at least col. 1, lines 41-53; col. 6, lines 45-63);

directing the request from the user to the customer web server (ONS routing request) (at least Fig. 4); thereafter

receiving a request from the user for content on the web page at a second web address, the second web address including the hostname (request for an address) (at least col. 6, lines 45-53);

determining service metrics of servers in a network of servers (mirrored server round trip times) (at least col. 7, lines 24-42);

determining the server from the network of servers that is appropriate for the request for content, the server having service metrics better than service metrics of remaining servers from the network of servers (mirrored server with best route) (at least col. 7, lines 24-42).

Chauhan does not explicitly teach caching servers as having cached static content thereon to further mirror data of a customer webpage and allowing a customer to add at least one of the customer's web servers to the plurality of mirrored customer web servers via a user interface.

Art Unit: 2157

However, the use and advantages for using such a cache server is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Scharber. Scharber discloses many types of cache servers including POP cache servers for redirecting requests for a most economical delivery of content to an end user (at least col. 4, lines 13-26, 46-56; col. 1, lines 60,67; col. 7, lines 3-7). Scharber further teaches a user interface and associating a personal cache server with the individual user (at least col. 1, lines 13-44). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the use of Scharber's POP cache serving into Chauhan's system as this would further enhance Chauhan's system to lessen load and traffic on mirror sites and use Chauhan's optimizing address name translating with Scharber's POP cache servers so as to geographically optimize latency between a client and static content from a server thereon. Further, it is very well known in the art to use proxy / caching servers to serve static content from a host to users, as Scharber teaches, and to also use mirror servers as Chauhan teaches.

Chauhan and Scharber (hereinafter "the combination ") fail to teach a customer paying a fee to a service for use of the network of caching servers storing static content for the customer. However, the use and advantages for using such a system is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Lin. Lin clearly teaches receiving compensation for use of cache servers (at least paragraphs 19-20). Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate charging a customer a

Art Unit: 2157

fee into the combination's system as compensation for the generation of revenue for providing such caching services is needed and obvious as Lin teaches the clients paying a monthly fee to the ISP as the ISP (customer) would pay a fee for use of the clients to use the caching servers.

As per Claim 2.

determining load of servers in the network of servers (at least col. 2, lines 14-33; col. 3, lines 39-53);

wherein determining the server from the network of servers that is appropriate for the request, the server having a latency and a load lower than latency or load of the remaining servers from the network of servers (at least col. 2, lines 14-33; col. 3, lines 39-53).

As per Claim 3.

Chauhan and Lin'do not disclose caching static content. However, the use and advantages for using such caching is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Scharber. Scharber discloses:

determining whether the caching server includes the static content;

determining a customer web server that includes the static content when the caching
server does not include the static content (at least Scharber col. 4, lines 13-26, 46-56);

retrieving the static content from the web server that includes the static content (at least Scharber col. 4, lines 13-26, 46-56); and

Art Unit: 2157

storing the static content from the web server in the caching server (caching static content) (at least Scharber col. 4 lines 13-26, 46-56).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Scharber's static page caching into Chauhan and Lin's system as this is very well known in the art as to how server caching is performed for client requested static content.

As per Claim 4.

wherein the determining the web server step comprises:

determining traffic loads of the plurality of mirrored customer web servers, each of the customer web servers storing the static content (mirror servers) (at least col. 3, lines 39-53); and

determining a second customer web server from the plurality of mirrored customer web servers that is appropriate for the request, the second customer web server having a traffic load lower than traffic loads of remaining customer web servers from the plurality of mirrored customer web servers (best route to mirror server) (at least col. 3, lines 39-53).

As per Claim 5.

Chauhan and Lin do not disclose caching from another server. However, the use and advantages for using such a caching protocol is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Scharber.

Scharber discloses wherein retrieving the static content from the web server step comprises:

Art Unit: 2157

determining an IP address of the second customer web server (peer cache or origin) (at least Scharber col. 4, lines 46-56); and

requesting the static content from the second customer web server at the second customer web server IP address (retrieving content from origin server) (at least Scharber col. 4, lines 46-56).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Scharber's static page caching into Chauhan and Lin's system as this is very well known in the art as to how server caching is performed for client requested static content.

As per Claim 6.

wherein the network of servers includes a domain name server (at least col. 1, lines 41-67).

As per Claim 7.

wherein the request from the user for the web page is transferred from a first domain name server (local name server) (at least Fig. 4);

wherein the network of servers includes a second domain name server (ONS) (at least Fig. 4; col. 3, lines 23-38); and

wherein the second domain name server determines the customer web server from the plurality of mirrored customer web servers (ONS determines mirror server) (at least col. 3, lines 39-53).

As per Claim 8, Chauhan teaches a method, comprising:

receiving a first request from a client DNS server to resolve a first domain name, the client DNS server receiving a request from a user of a web page address that includes the first domain name (request for address) (at least col. 6, lines 45-53);

determining load measurements of a plurality of mirrored customer web servers among a customer's plurality of web servers, each of the customer web servers addressable by the first domain name, and each of the customer web servers configured to service the request from the user (mirrored server round trip times) (at least col. 7, lines 24-42);

determining a customer web server from the plurality of mirrored customer web servers, the customer web server having a traffic load lower than traffic loads of other customer web servers from the plurality of mirrored customer web servers (mirrored server with best route) (at least col. 7, lines 24-42);

determining an IP address of the customer web server (address name server) (at least col. 1, lines 41-53; col. 6, lines 45-63);

providing the IP address of the customer web server to the client DNS server (LNS) (at least Fig. 4; col. 3, lines 39-53); thereafter

receiving a second request from the client DNS server to resolve a second domain name, the client DNS server receiving a request from the user of a uniform resource locator that includes the second domain name (request for an address) (at least col. 6, lines 45-53);

determining performance metric measurement of servers in a network of servers, each of the caching servers addressable by the second domain name (mirrored server round trip times) (at least col. 7, lines 24-42);

determining a server from the network of servers, the server having performance metrics lower than performance metrics of other servers from the network of servers (mirrored server with best route) (at least col. 7, lines 24-42);

providing the IP address of the server to the client DNS server (LNS) (at least Fig. 4; col. 3, lines 39-53).

Chauhan does not explicitly teach caching servers as having cached content thereon to further mirror data of a customer webpage and allowing a customer to add at least one of the customer's web servers to the plurality of mirrored customer web servers via a user interface.

However, the use and advantages for using such a cache server is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Scharber. Scharber discloses many types of cache servers including POP cache servers for redirecting requests for a most economical delivery of content to an end user (at least col. 4, lines 13-26, 46-56; col. 4, lines 60-67; col. 7, lines 3-7). Scharber further teaches a user interface and associating a personal cache server with the individual user (at least col. 1, lines 13-44). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the use of Scharber's POP cache serving into Chauhan's system as this would further enhance Chauhan's system to lessen load and traffic on mirror sites and use Chauhan's

Art Unit: 2157

optimizing address name translating with Scharber's POP cache servers so as to geographically optimize latency between a client and static content from a server thereon. Further, it is very well known in the art to use proxy / caching servers to serve static content from a host to users, as Scharber teaches, and to also use mirror servers as Chauhan teaches.

Chauhan and Scharber (hereinafter " the combination ") fail to teach a customer paying a fee to a service for use of the network of caching servers storing static content for the customer. However, the use and advantages for using such a system is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Lin. Lin clearly teaches receiving compensation for use of cache servers (at least paragraphs 19-20). Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate charging a customer a fee into the combination's system as compensation for the generation of revenue for providing such caching services is needed and obvious as Lin teaches the clients paying a monthly fee to the ISP as the ISP (customer) would pay a fee for use of the clients to use the caching servers.

As per Claim 9.

wherein the load measurements comprise latency measurements (at least col. 2, lines 1-9, 42-57).

As per Claim 10.

Art Unit: 2157

wherein the performance metric measurements comprise any of: load CPU and memory measurements, HTTP response measurements, and FTP response measurements (load, ping) (at least col. 2, lines 14-33; col. 3, lines 54-66).

As per Claim 11.

Chauhan and Lin do not disclose caching static content. However, the use and advantages for using such caching is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Scharber. Scharber discloses wherein retrieving data from the caching server step comprises:

determining whether the caching server includes the data (at least Scharber col. 4, lines 13-26, 46-56);

retrieving data from a second customer web server from the plurality of mirrored customer web servers when the server does not include the data (at least Scharber col.

4, lines 13-26, 46-56); and

storing the data within the server (caching static content) (at least Scharber col. 4, lines 13-26, 46-56).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Scharber's static page caching into Chauhan and Lin's system as this is very well known in the art as to how server caching is performed for client requested static content.

As per Claim 12.

wherein retrieving data from the second customer web server step comprises:

determining the second customer web server from the plurality of mirrored customer web servers, the second customer web server having a traffic load lower than traffic loads of remaining customer web servers from the plurality of mirrored customer web servers (at least col. 2, lines 14-33; col. 3, lines 39-53); and

retrieving the data from the second customer web server (download content) (at least col. 2, lines 1-9).

As per Claim 13.

receiving a first request from a second client DNS server to resolve a third domain name, the second client DNS server receiving a request from a second user of a second web page address that includes the third domain name (at least Fig. 4);

determining load measurements of a plurality of second customer web servers among a customer's plurality of web servers, each of the second customer web servers addressable by the third domain name, and each of the second customer web servers storing data configured to service the request from the second user (mirrored servers) (at least Fig. 4);

determining a second customer web server from the plurality of second customer web servers, the second customer web server having a traffic load lower than traffic loads of other second customer web servers from the plurality of second customer web servers; determining an IP address of the second customer web server (at least col. 2, lines 14-33; col. 3, lines 39-53); and

providing the IP address of the second customer web server to the second client DNS server (IP2) (at least Fig. 4).

Art Unit: 2157

As per Claim 14.

Chauhan inherently discloses more than one user using the system, and that with any user, the mirror site with the best performance characteristics will be chosen as the server to retrieve content from thereon:

receiving a second request from the second client DNS server to resolve the second domain name, the second client DNS server receiving a request from the second user of a second uniform resource locator that includes the second domain name (at least Fig. 4; col. 2, lines 10-33);

retrieving a second set of data from the caching server in response to the second uniform resource locator (at least Fig. 4; col. 2, lines 10-33); and

providing the second set of data to the user (at least Fig. 4; col. 2, lines 1-33).

Claims 21-34 do not substantially add or define any additional limitations over claims 1-14 and therefore are rejected for similar reasons.

Response to Arguments

4. Applicant's arguments filed 30 April 2007 have been fully considered but they are not persuasive. Applicant argues Chauhan, Scharber, nor Lin teach determining traffic loads of a plurality of mirrored customer web servers among a customer's plurality of web servers. However, Chauhan teaches a plurality of mirrored web servers, wherein the traffic load for each web server is analyzed for the fastest server for a given route (at least col. 7:25-42; Fig. 4). Thus, for example, Chauhan's plurality of web servers could

Art Unit: 2157

be 406a and 406b, and among these plurality of web servers, the traffic loads of a plurality (406a and 406b) of mirrored web servers is determined.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., two distinct sets of servers) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 09/648,420 Page 15

Art Unit: 2157

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Newly cited Guenthner et al, in addition to previously cited Shimomura et al (see col. 14, lines 15-27), Lara et al, Kenner et al, Levy, Jordan et al, Kumar et al, Jacobs et al, Amicangioli, Heddaya et al, Schuba, Bharat et al, Lewis et al, O'Neil et al, Bolton et al, Emens et al, Shah, Leighton et al, Logan et al, Rune, Sitaraman et al, Malcolm, Herriot, Kapoor, and Gupta et al are cited for disclosing pertinent information related to the claimed invention. Applicants are requested to consider the prior art reference for relevant teachings when responding to this office action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory G. Todd whose telephone number is (571)272-4011. The examiner can normally be reached on Monday - Friday 9:00am-6:00pm w/ first Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571)272-4001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2157

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

の意思の問題を持ちている。

Page 16

Gregory Todd

Patent Examiner

Technology Center 2100